"Made available under NASA sponsorship in the interest of early and wide dissemination of Earth Resources Survey Program information and without liability for any use made thereof,"

8.0 - 1 0.24.

JSC-11401 (Revision A)

NASA CR-

160618

IMPLEMENTATION SPECIFICATION FOR LARGE AREA CROP INVENTORY
EXPERIMENT (LACIE) PHASE III AUTOMATIC STATUS
AND TRACKING SYSTEM

Job Order 71-695

(This revision supersedes issue dated August 1976.)

Prepared By

Lockheed Electronics Company, Inc.
Systems and Services Division
Houston, Texas

Contract NAS 9-15200

For

EARTH OBSERVATIONS DIVISION
SCIENCE AND APPLICATIONS DIRECTORATE



National Aeronautics and Space Administration

LYNDON B. JOHNSON SPACE CENTER

Houston, Texas

March 1977

(E80-10249) I MPLEMENTATION SPECIFICATION FOR LARGE AREA CROP INVENTORY EXPERIMENT (LACIE) PHASE 3 AUTOMATIC STATUS AND TRACKING SYSTEM (Lockheed Electronics Co.) 46 p HC A03/MF A01 CSCL O

N80-30832

LEC-8675 Revision A

cscl 02c G3/43 00249

"Made available under NASA sponsorship in the interist of many and wide dissemination of Earth Resources Survey Program information and without liability for any use made thereof."

8.0 - 1.0.24.9

JSC-11401 (Revision A)

160618

IMPLEMENTATION SPECIFICATION FOR LARGE AREA CROP INVENTORY
EXPERIMENT (LACIE) PHASE III AUTCMATIC STATUS
AND TRACKING SYSTEM

Job Order 71-695

(This revision supersedes issue dated August 1976.)

Prepared By

Lockheed Electronics Company, Inc.
Systems and Services Division
Houston, Texas

Contract NAS 9-15200

For

EARTH OBSERVATIONS DIVISION
SCIENCE AND APPLICATIONS DIRECTORATE



National Aeronautics and Space Administration

LYNDON B. JOHNSON SPACE CENTER

Houston, Texas

March 1977

(E80-10249) I MPLEMENTATION SPECIFICATION FOR LARGE AREA CROP INVENTORY EXPERIMENT (LACIE) PHASE 3 AUTOMATIC STATUS AND TRACKING SYSTEM (Lockheed Electronics Co.) 46 p HC A03/MF A01 CSCL O

N80-30832

LEC-8675 Revision A

s Co.) Unclas CSCL 02C G3/43 00249

IMPLEMENTATION SPECIFICATION FOR LARGE AREA CROP INVENTORY EXPERIMENT (LACIE) PHASE III AUTOMATIC STATUS AND TRACKING SYSTEM

Job Order 71-695

PREPARED BY

C. C. de Valcourt

Lockheed Electronics Company, Inc.

APPROVED BY

LEC

P. L. Krumm, Supervisor Applications Software Section

mitte & Bertrand g.

M. L. Bertrand, Manager Earth Observations Data Products Department NASA

V. M. Dauphin, Data Manager Earth Observations Division

M. Sulester

LACIE ISRRS Subsystem Manager

D. H. Hay, Chief

Systems and Facilities Branch

Prepared By

Lockheed Electronics Company, Inc.

For

Earth Observations Division Science and Applications Directorate

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS

March 1977

TECHNICAL REPORT INDEX/ABSTRACT (See instructions on reverse side.)						
Implementation Specification for Large Area Crop Inventory Experiment (LACIE) Phase III Automatic						
Status and Tracking System						
*, CONTRACTOR/ORGANIZATION NAME	4. C NTRACT OR CHANT NO.					
Lockheed Electronics Company, Inc.	NAS 9-15200					
T. NTHACTORZORIGINATOR COCCMEN' NO. IJEC-8675	6. PUBLICATION DATE (THIS ISSUE)					
(Revision A)	March 1977					
7. SECORITY CLASSIFICATION	8. OPR (OFFICE OF PRIMARY RESPONSIBILITY)					
Unclassified	Earth Observations Division					
C. C. de Valcourt Control Contr						
11. DOCUMENT CONTRACT REFERENCES	12. HARDWARE CONFIGURATION					
Job Order 71-695	ASATS					
CONTRACT EXHIBIT NO.	SUBDYTEM					
	MAJOR EQUIPMENT GROUP					
TRE NO. AND REVISION	DEC PDP 11/45					
DHL LINE ITEM NO.	RSX 11D					
Operational and functional required Automatic Status and Tracking Syst Crop Inventory Experiment are given system is presented.	em for Phase III of the Large Area n, and a general overview of the					
14, \$UBJE	CT TERMS					
Data management						
Status and tracking						
LACIE Phase III						

PREFACE

The purpose of this document is to establish the requirements for the Phase III Automatic Status and Tracking System of the Large Area Crop Inventory Experiment (LACIE) for implementation on the PDP 11/45 computer. The LACIE Phase III Automatic Status and Tracking System will provide mechanisms for statusing, tracking, monitoring, and reporting LACIE Phase III imagery and evaluation data and will enable LACIE operations personnel to respond to management requests for status and statistical data.

PRECEDING PAGE SLACK NOT FILMED

CONTENTS

Sec	ion Pa	ge
1.	PURPOSE AND SCOPE	-1
2.	SYSTEM OVERVIEW	-1
	2.1 <u>FUNCTIONS</u>	-1
	2.2 <u>BACKGROUND</u>	-1
	2.3 GENERAL DESCRIPTION	-1
	2.4 ASSUMPTIONS AND CONSTRAINTS	-2
	2.4.1 SOFTWARE	-2
	2.4.2 DATA BASE SIZING	-3
	2.5 <u>SECURITY</u>	-3
3.	SYSTEM REQUIREMENTS	-1
	3.1 OPERATIONAL REQUIREMENTS	-1
	3.1.1 HARDWARE/SOFTWARE CONFIGURATION	-1
	3.1.2 DATA INPUT	-1
	3.1.3 BATCH OPERATION	-3
	3.1.4 OUTPUT	-7
	3.2 FUNCTIONAL REQUIREMENTS	-7
	3.2.1 INPUT	-7
	3.2.2 STORAGE	12
	3.2.3 PROCESSING	12
	3.2.4 DATA BASE UPDATE	12
	3.2.5 AUDIT ALGORITHMS	16
	3.2.6 DATA BASE MAINTENANCE	17
	3.2.7 OUTPUT	17

Appendix													Page
REPORT	EXAMPLES.	•		•	•	•		_		_			Z)

TABLES

Table	e	Page
3-1	ASATS CARD TYPE AND INFORMATION	3-8
3-2	GROUND RULES AND COMMENTS	3-10
3-3	DAPTS (PARENT) RECORD FORMAT	3-13
3-4	FLOCON (CHILD) RECORD FORMAT	3-14

FIGURES

Figure	e	Page
2-1	Phase III acquisitions	2-4
3-1	The LACIE data flow indicating ASATS status points	3-2
3-2	DAPTS input card formats	3-4
3-3	FLOCON/OCC input card formats	3-5
3-4	LPDL input card formats	3-6
A-1	Sample format of LACIE batch input cards report	A-1
A-2	Sample format of punch cards listing	A-3
A-3	Sample format of cards submitted report	A-4
A-4	Sample format of invalid duplicate input cards report	A-6
A-5	Sample format of invalid input card types report	A-6
A-6	Sample format of invalid LACIE Phase indicator report	A-6
A-7	Sample format for sample invalid new acquisitions report	A-7
A-8	Sample format for invalid DAPTS modifications report	A-7
A-9	Sample format for the invalid acquisition (child) modifications report	A-7
A-10	Sample format for the daily packet order list	A-8
A-11	Sample format for the LACIE Phase III biological window openings report	A-9
A-12	Sample format for the LACIE Phase III biological window closings report	A-10
A-13	Sample format for the LACIE Phase III packet	Δ - 11

1. PURPOSE AND SCOPE

This document establishes requirements for the development of the Automatic Status and Tracking System (ASATS) for Phase III of the LACIE. The ASATS will enable the Earth Observations Division (EOD) of the Lyndon B. Johnson Space Center (JSC) to monitor LACIE data processing and evaluation and to respond to management requests for status and statistical data.

The LACIE Phase III ASATS is being developed by the Earth Observations Data Products Department of Lockheed Electronics Company, Inc./Systems and Services Division (LEC/SSD) in support of the EOD Systems and Facilities Branch (SFB). The task is being accomplished under job order 71-695.

2. SYSTEM OVERVIEW

2.1 FUNCTIONS

The primary functions of the LACIE Phase III ASATS are to

- a. Monitor, track, and report LACIE data flow and data evaluation.
- b. Provide LACIE project and subsystems data flow summary reports.
- c. Enable LACIE operations personnel to respond to management requests for status and statistical data.
- d. Provide data for subsystem work scheduling.
- e. Provide historical data on completed acquisitions.

2.2 BACKGROUND

The ASATS described in this document is being developed in response to requirements prepared by the LACIE Status and Tracking Working Task Group comprised of representatives from the ASATS user and implementation organizations. Experience gained from the operation of both automated and manual status and tracking systems during Phase I and Phase II has been significantly beneficial in the development of the requirements described here.

2.3 GENERAL DESCRIPTION

The ASATS will collect, store, and report LACIE sample segment and acquisition descriptions and status data. The data will be batch input using punched cards.

Two data bases will be established on input and revised as applicable.

- a. Phase II This data base contains information on all Phase II sample segments identified to the Goddard Space Flight Center (GSFC) for imagery processing and status information on all acquisitions received at JSC which are associated with those sample segments.
- b. Phase III This data base contains information on all Phase III sample segments identified to GSFC for imagery processing and status information on all acquisitions received at JSC which are associated with those sample segments.

The data bases will be resident on a system which can provide for demand or batch updating, access, and retrieval.

The ASATS will provide daily management reports for LACIE scheduling, evaluation, and decision making processes. It will also provide demand query capability for the satisfaction of management requests for additional status and statistical data.

2.4 ASSUMPTIONS AND CONSTRAINTS

2.4.1 SOFTWARE

- a. Cards may be input in any sequence.
- b. Transaction dates must be filled in for individual input cards when the transaction date differs from the current date.
- c. Card types valid for processing are limited to *, 2, 3, 4, 5,
 6, 7, 8, 9, B, G, H, I, J, K, M, Q, U, and X.
- d. Input card duplicates will not be processed.
- e. The cards *, 2, 3, and B will add new records or will modify data for which the input fields are not equal to blank.

2.4.2 DATA BASE SIZING

Current estimates indicate that the active data base is expected to handle from about 3500 to 4800 segments (at about 8 acquisitions per segment) for approximately 28K to 38K logical records. However, the data base size may vary considerably due to the dynamic conditions of the program. An estimate of the expected acquisition flow rate is given in figure 2-1.

2.5 SECURITY

Security of the data bases, in general, should be preserved by limiting the "read/write" system access to as few qualified personnel as possible. Other users may be permitted a "Read Only" access to the files whereby they may retrieve data, format specialized reports, and save programs/data specifically set aside for such users without affecting the data bases on the data base directory.

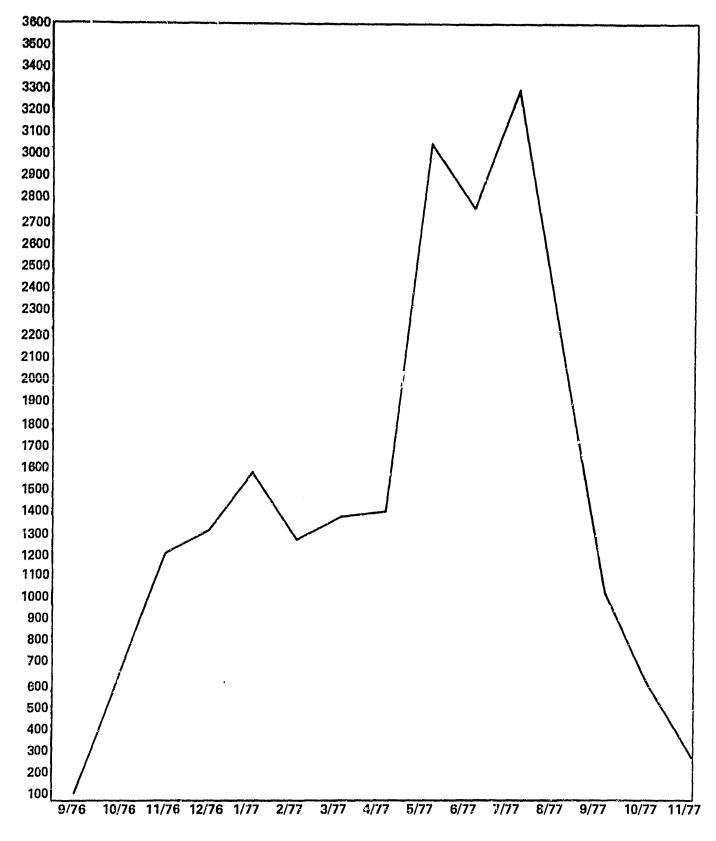


Figure 2-1. - Phase III acquisitions.



3. SYSTEM REQUIREMENTS

This section presents the operational and functional requirements of the LACIE Phase III ASATS.

3.1 OPERATIONAL REQUIREMENTS

3.1.1 HARDWARE/SOFTWARE CONFIGURATION

Both interactive and batch terminals are required in JSC Building 17 to support the system. A card reader, a card punch, and a line printer are required for batch update and report printing, and an interactive terminal with print capability will be used for data base management and special queries.

3.1.2 DATA INPUT

The ASATS will accept input data on sample segment descriptions and acquisition activity through punched cards submitted by the responsible subsystem or area personnel. A simplified LACIE data flow diagram is presented in figure 3-1. The ASATS status points and the organizations responsible for their reporting are also shown in this figure.

For DAMPS (status point 1), the status steps are the following:

- a. Sample segments ordered from GSFC
- b. Sample segment descriptive information
- c. Biological phase open-close dates for segments
- d. Changes to sample segment (DAPTS) data records

For the LACIE Physical Data Library [(LPDL), status point 2], the status steps are the following:

- a. Receipt of the topographic map by sample segment
- b. Receipt of the ancillary summary by sample segment
- c. Receipt of the crop calendar by sample segment



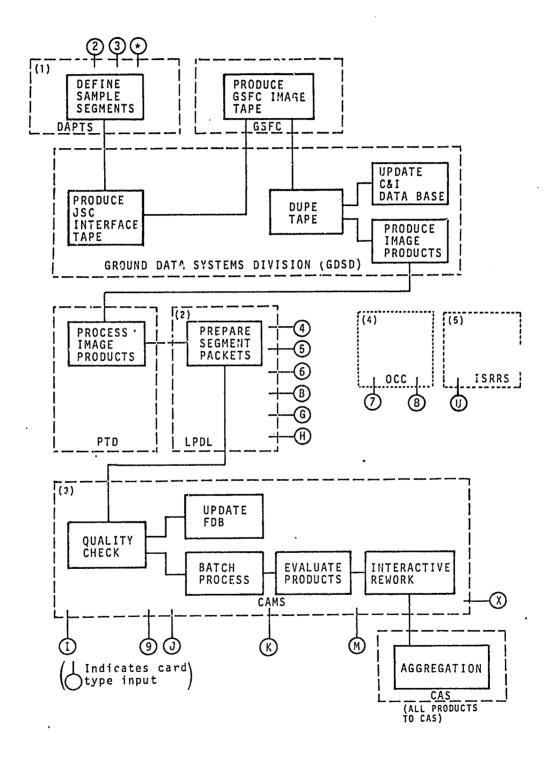


Figure 3-1.- The LACIE data flow indicating ASATS status points.

- d. Receipt of the composite GSFC tape listing and cataloguing and indexing (C&I) update transaction report by acquisition
- e. Receipt of imagery from the Photographic Technology Division (PTD) by acquisition
- f. Packet ready for Classification and Mensuration Subsystem (CAMS) pickup by acquisition

For the CAMS (status point 3), the status steps are the following:

- a. Packet received from the LPDL
- b. Batch processing submitted
- c. Batch products received
- d. Rework started
- e. Summary delivered to the Crop Assessment Subsystem (CAS)
- f. Acquisition rejected

For the Operations Coordination Center [(OCC), status point 4 as required], the status steps are the following:

- a. Acquisition reordered
- b. Acquisition processing cancelled
- c. Transaction date (current date)

For the Information Storage, Retrieval, and Reformatting Subsystem [(ISRRS), status point 5 as required], the status steps are as follows:

a. Image purged

3.1.3 BATCH OPERATION

The ASATS is to be designed so that data base update and report generation will be performed in an overnight batch mode with input data from punched cards. Input card formats are illustrated in figures 3-2, 3-3, and 3-4.



		1	H	_	-	1	-				5	-	-		<u> </u>	• 1		i	110		-
		-	-	•		1	-			-	SILE	}	ŀ	ļ		• !		 -	+	1	
		F				1					2		ľ.	1_	•	. ;	1"	1		• •	_
			-	╌┼	-+-	4	A278		£	-	抗	}	١.		ļ	.	ļ	1	ļ.	į,	
		7				i	٠.	. :		- 1	E'M (1ST	-47000	-	+ .		•	-	1	ļ · ·	+	× -
	i	7			1	·			•		Ξ.	·	_	_	pa e		- 1	1	1 °		١,
<u> </u>		1-	-			-	٠		. 1			l ma a	-		-	• 1	-	1	į .	ŀ	-
		<u></u>	Н	-	-+	4	1			\$	S	A 170 MIN				- 1		-w	٠.	-	4-7
i		3			<u> </u>			2.2	22.	SCALE	E.	erms black	N 20-1			2	-10	1	1		_
		5			- 6		ļ.,	-	5	ğ	Z.	W-2		-	L.,	S			-	12000	<u> </u>
Į		5			T E	i	-			- 4	н н н	-0°77 (0)	10.	-		SITE	-	+-	1	ļ	-
		3			CHART					SOLL		-	-		_	3	-	1	•		
		3	-		3		-	1			H		-			0.7	474	-			-
		-		****	2					-		-	-	-	_		-	1	T		
		3		\exists		7					×			-				L		_	
	ĺ] —	-	┥	- -	-	-	Н		Ħ.	ЖЖ	-	-	├-	ļ			╁.	-	-	-
					士	1				MAP.	Ž.	-	unc.		2.00	100.1		****	-	_	
		<u></u>	П	\exists	4	4	-	П			X.		L.	1					1		
		3-	Н	-	+	1	-	-	-60/9	결{	H.		 _	-		Q a	\vdash	+-	-	-	
		=			士	1			_	SCALE	HHHHHH	-	Z	HY2 ND		a		İ.			
		2			7	7	\Box				×		<u> </u>	L	_	X					
		<u></u>	Н	ᅱ		-	-	-	-	LARGE	H	-	-	H			-		-		-dule-le-
						1				3	Ξ				· -	0					_
		1_		_		-	-	Н				۱,) E	 5VH	a-	의	_	<u> </u>	L		_
		-	-	\dashv		┨	-	Н	Н	H	H	-	T	(AT	s -	q q x x	-	╁	-	_	
		=				1				۴Ħ	E			-		7		100 100	100		
		1			- T					¥-	E						_	F	- Norman		
		취짜	INC	114		4	-				HH	-	-	-te-	-			-	-		
			PYL	ro	5 (7				SCALE	МЖ	٢	3	HY2 ND				İ			
		:		_	-	-	-	-				-	-	-	_	<u>*</u>	-	 	-	_	
		1	Н	-	{- <u>'</u>	_	\vdash		-	LARGE	MM	-	-			<u>: حا</u>	\vdash	H	Н	Н	_
		=			:]	2				1	×				P) -			Ξ			
		<u>*</u>			n u	긱	-	Н	Щ	Ц	Ξ	-5	3	SVH	d-	a a a a i x i x	-		,,	-	
		7	Н	_	-	•			_	_	υ	L		TAF	5	×					
				_	1 1			3	ao	2_	2	-	_	_		[2]					
Ì		<u>-</u>	Н	-	1		\vdash		Orc	-	0	-	-	-		re	-	+	-	Н	
		2]			ГУC	,_		-2	-	SVH		a a					
SS					3-1:		-	h	rii	Ī.,	14	+-		an		0	-	+-	-		
i.		-	Н	-		7	\vdash		_		Ξ	-	┝	-		X	-	 -		-	_
15		*_			= [4				E	Ŧ		Ξ		_			Ξ			_
ă		~ ~		-	-r.	-	\vdash	-		Ē-,		-	-	-	•		-	├-	-		
FORMAT POSITIONS		-		-+	- 5		-	\vdash		LONGITUDE	급	-z		TAT		Z D D		<u> </u>	-	Н	
FOR		2			_ [2			Ξ,	=	Q Q		<u></u>		Ĩ						
12		Ę	Н	\vdash)	-	-	-	-	ш	-	 	-		*	-	-	-	\vdash	_
CARD					$\exists :$	7					Ξ									너	_
				_	g-[3	4	F		_	-	Ξ	- 1	3	ND HYE	₫	Ω		-	Н		
1		<u>-</u>	\vdash		COUNTRY	爿	-	Н	-	ဌ-		+	ı	ИВ	3 .	>	-	+		\vdash	
Ì		=			COUNTRY	2				LATITODE	Q Q Q N					7			口		
1	'	2=	\vdash		-13	4	-	-	-	_	읖	-	-	-	-	· '	-		\vdash	Н	
		-			- 0		<u></u>	_	,,,,	- -			-	-	-	a a a k k is is is	_				
DAPTS		=			_[7	ק	<u></u>	AT.	HE.	W_	E	-1	L)	AAT AAH	ŝ	0		\Box			_
PA]	<u>:</u> -	-	Н	-1:	7	+ .	3	ďχ	T-	-	-	-	-	-	X	-	-	\vdash	Н	_
	Ī		1	I'I			F	MEN	L	3-	m					3	-				_
l		:			_[2	_				S	_				S	_	1	Ш		÷
	10	`I	eer Ven	EC!	N- -	0	-	i	-	-	S	-	-		_	SIS	-	-	-	-	÷
	1	·				0					S				_	15					Ξ
		-		100	1	1	F	П				\vdash	_		/		-	_			•
a	FIELD 05010HATION	1	H	100	2 1	+	-	Н	Н		2	\vdash	-	Н	-		-	-	-		•
	į	-	~	_	٠,	-	•	-	•	•	8	=	2	2	:		-	, <u></u>	2	=	2

Figure 3-2.- DAPTS input card formats.

3-4

seed p seed	(CANCELLED) (CANCELLED) (CANCELLED) (CANCELLED) (CANCELLED) (CANCELLED) (CANCELLED) (CANCELLED) (CANCELLED) (CANCELLED)
XEY PUNCH TRANSMITAL TO BH FLOCON/OCC/ISRR® CARD FORMAT POSITIONS THE PURCH POSITIONS	SEGRETAL ACC. 1 S. S. S. S. S. S. S. S. S. S. S. S. S.
Charles San	3-5 10

Figure 3-3.- FLOCON/OCC input card formats.

TOPOGEAPHIC MAP RECEIVED (TOPOGEAPHIC MAP RECEIVED (TOPOGEAPHIC MAP RECEIVED (TANGILLARY DATA RECEIVED (TANGILLARY DATA RECEIVED (TANGACTION DATE DEFAUIT (TRANSACTION DATE DEFAUIT

Figure 3-4. - LPDL input card formats.

3-6 []

3.1.4 OUTPUT

3.1.4.1 Batch Reports

The ASATS will generate the following reports as a part of the overnight batch operation. On a daily basis, audits, punched cards, packet labels, and packet order lists will be generated. Monthly, the biowindow open report and the biowindow close report will be generated in addition to the daily reports.

3.1.4.2 Cards

As a part of normal batch operation, the ASATS will output G and H punched cards without the transaction dates for all acquisitions receiving B cards in the same update. The ASATS will also output 4, 5, and 6 punched cards without the transaction dates for all segments receiving *, 2, and 3 cards (new records).

3.1.4.3 Labels

As a part of the normal batch operation, the ASATS will output printed LPDL imagery envelope labels for all acquisitions receiving a B card submitted in the same update (see appendix, fig. A-13).

3.1.4.4 Interactive Query

Provisions will be made for the query of any of the data bases from an interactive terminal for generation of special reports or status queries.

3.2 FUNCTIONAL REQUIREMENTS

3.2.1 INPUT

The LACIE Phase III ASATS will accept data from punched cards. Table 3-1 lists the card type, the card title, the responsible organization, the data transmitted to ASATS, and the resulting



TABLE 3-1.- ASATS CARD TYPE AND INFORMATION

7.07		1 T 2 T - T - T - C - C - C - C		Resu	Resulting status	s information
type	Card title	responsible organization	bata transmitted to ASATS	Current location	Current status	Current comment
*	Combined strata card	DBA	Segment number Country Region Zone		-	
17	First site card		Strata Global designator Priority group LACIE Phase indicator	‡ !	8 8 8	;
м	Second site card	DAPTS	Segment number Segment type Wheat type LACIE Fhase indicator	ļ	ļ	!
		DAPTS	Segment number Start Phase I End Phase I Start Phase II End Phase II Start Phase III End Phase III End Phase III			
7	Topographic map received	LPDL	LACIE Phase indicator Segment number Date topographic rap received by LPDL	l	i i	ļ
S.	Crop calendar received	LPDL	LACIE Phase indicator Segment number Date crop calendar racts phase indicator	İ		
9	Ancillary data received	TPDL	Segment number Date ancillary data received by IPDL LACIE Phase indicator			1
м	GSFC tape list	LPDL	Segment number Acquisition date GSFC tape number GSFC processing date C&I update date Film flag LACIE Phase indicator	GDSD	Work	PFC

3-8 13

TABLE 3-1.- Concluded.

LACIE Phase Indicator inclu

3-9 14

TABLE 3-2.- GROUND RULES AND COMMENTS

	Card type	Comments
receipt of an acquisition at JSC and establishes the acquisition FLOCON (child) record for status- ing and tracking associated with an existing DAPTS (parent) record. G The LPDL film complete card indicates LPDL receipt of all PFC film products. A check is automatically made of the segment's previously reported ancillary data availability, and the acquisition status is displayed accordingly: • if crop calendar, ancillary summary and topo map all received LPDL-HOLD - ALL DATA COMPLETE • if crop calendar, ancillary summary and topo map not received LPDL-HOLD - AWAIT CC, ANCIL, TOPO • if ancillary summary and crop calendar not received LPDL-HOLD - AWAIT ANCIL/CROP	*,2,3,4,5,6	
of all PFC film products. A check is automatically made of the segment's previously reported ancillary data availability, and the acquisition status is displayed accordingly: • if crop calendar, ancillary summary and topo map all received LPDL-HOLD - ALL DATA COMPLETE • if crop calendar, ancillary summary and topo map not received LPDL-HOLD - AWAIT CC, ANCIL, TOPO • if ancillary summary and crop calendar not received LPDL-HOLD - AWAIT ANCIL/CROP	В	receipt of an acquisition at JSC and establishes the acquisition FLOCON (child) record for statusing and tracking associated with an existing
LPDL-HOLD - AWAIT CROP CAL if crop calendar and topo map not received LPDL-HOLD - AWAIT CROP/TOPO if ancillary summary and topo map not received LPDL-HOLD - AWAIT ANCIL/TOPO if topo map not received LPDL-HOLD - AWAIT TOPO	G	of all PFC film products. A check is automatically made of the segment's previously reported ancillary data availability, and the acquisition status is displayed accordingly: • if crop calendar, ancillary summary and topo map all received LPDL-HOLD - ALL DATA COMPLETE • if crop calendar, ancillary summary and topo map not received LPDL-HOLD - AWAIT CC, ANCIL, TOPO • if ancillary summary and crop calendar not received LPDL-HOLD - AWAIT ANCIL/CROP • if crop calendar not received LPDL-HOLD - AWAIT CROP CAL • if crop calendar and topo map not received LPDL-HOLD - AWAIT CROP/TOPO • if ancillary summary and topo map not received LPDL-HOLD - AWAIT ANCIL/TOPO • if topo map not received

• if ancillary summary not received

LPDL-HOLD - AWAIT ANCIL

TABLE 3-2.- Concluded.

Card type	Comments
Н	The segment packet complete card indicates that all data have been collected for the specific acquisition, the data placed in the segment packet and the packet available in the LPDL for CAMS pickup.
I	The packet is received by CAMS for work.
9	The CAMS reject card indicates that the packet has been rejected by CAMS and returned to the LPDL. Disposition is as directed by the OCC (7, 8 cards).
J	The batch processing DPR's have been submitted.
K	Batch processing has been completed and the products have been received by CAMS.
М	The acquisition is receiving interactive rework.
х	The segment summary has been forwarded to CAS. Also displayed are the CAMS category and the CAMS estimate of biowindow.
7	The acquisition has been cancelled for further processing. Reason will appear under comments.
8	The acquisition has been reordered. Reason will appear under comments.
Q	Current date as default for transaction date.
U	Image purged — change CURCOMMENT field accord-ingly.

ASATS status information. Table 3-2 presents the criteria (comments) for card submittal for each card type used.

3.2.2 STORAGE

The amount of storage required to support the LACIE Phase III ASATS will be sized to manipulate an active data base containing as many as 4800 sample segments with as many as 8 acquisitions per sample segment.

3.2.3 PROCESSING

3.2.3.1 Input

Cards submitted to the update program will be used to update the two data bases as applicable. The data bases each include the DAPTS (sample segment) records and the FLOCON (acquisition) data records for both the Phase II and Phase III operations.

3.2.3.2 DAPTS Data Records (Phase II and Phase III)

The ASATS must provide records on all sample segments ordered for processing from GSFC. Table 3-3 provides the mnemonic, description, and size for each data field of these records, and indicates if the field is a key. Identical data bases will be established for Phase II data and Phase III data.

3.2.3.3 FLOCON (Acquisition) Data Records (Phase II and Phase III)

The ASATS must provide records for monitoring the status of all acquisitions received at JSC for processing. Table 3-4 provides the mnemonic, description, the size for each data field of these records, and indicates if the field is a key.

3.2.4 DATA BASE UPDATE

The input cards to the update program will provide control of each statusing step as data for the acquisitions are processed

TABLE 3-3.- DAPTS (PARENT) RECORD FORMAT

Field name	Description	Character length	Key
SEG	Segment number	4	
LPI	LACIE phase indicator	1	
COUNTR	Country designator	6	x
REG	Region	2	
ZONE	Zone	4	
STR	Stratum	4	
GD	Global designator	1	
WV	Wheat variety	1	х
PC	Priority code	2	x
TY	Segment type	1	
BIOW10	Biowindow 1 open (start date)	4	
BIOWLC	Biowindow 1 close (end date)	4	
BIOW20	Biowindow 2 open	4	
BIOW2C	Biowindow 2 close	4	
BIOW30	Biowindow 3 open	4	
BIOW3C	Biowindow 3 close	4	
BIOW40	Biowindow 4 open	4	
BIOW4C	Biowindow 4 close	4	
TOPO	Date topo map received	4	
CROP	Date crop calendar received	4	
ANCIL	Date ancillary data received	4	
SSC	Segment status character	1	
LUP	Date of last update to this record	4	

TABLE 3-4.- FLOCON (CHILD) RECORD FORMAT

Field name	Description	Character length	Key
SEG	Segment number	4	
LPI	LACIE phase indicator	1	
DATACQ	Acquisition date	4	
BW	Biowindow	1.	x
FF	Film flag	1	
CURS	Current station/status	ı	X
CURCOM	Current comment	20	
TAPE	GSFC tape number	6	
GSFC	GSFC processing date	4	
CANI	G&I update date	4	
LPDLCO	Date film products received from LPDL	4	
AICOMP	Date segment ready for CAMS pickup	4	
PACKRE	Date packet received by CAMS	4	
RUNSUB	Date FDB/batch data processing request submitted	4	
RUNCT	Run count	1	
PRODRE	Date batch products received by CAMS	4	
REWORK	Date rework begun	4	
RWKCT	Rework count	1	
TOCAS	Date to CAS	4	
CAMSBP	CAMS biowindow	3	
CATG	CAMS evaluation category	2	X
LSD	Date of last change to this record	4	

by the various LACIE subsystems. Updates will be initiated periodically by the Data Base Administrator. The following update algorithms are required.

- a. Initially set to zero, the RUNCT (Run Counter) accumulator will be automatically incremented by 1 upon input of the rard containing the "Batch Submitted" date.
- b. Initially set to zero, the RWKCT (Rework Counter) accumulator will be automatically incremented by 1 upon input of the M card containing the "Interactive Rework" begin date.
- c. The CURS [Current Station (Location and Status)] and CURCOMMENT (Current Comments) fields are all to be automatically changed in accordance with the information shown in table 3-1.
- d. Receipt of the G card will update the CURS and CURCOMMENT fields as snown below.

No G card will be accepted unless a corresponding acquisition (child) record exists.

Cards	CU	RS	CURCOMMENT
4, 5, and 6 cards not received	LPDL	HOLD	AWAIT CC/ANCIL/TOPO
6 card only received	LPDL	HOLD	AWAIT CROP/TOPO
5 card only received	LPDL	HOLD	AWAIT ANCIL/TOPO
5 and 6 card only received	LPDL	HOLD	AWAIT TOPO
4 card only received			
4 and 6 cards only received	LPDL	HOLD	AWAIT CROP CAL
4 and 5 cards only received	LPDL	HOLD	AWAIT ANCIL
4, 5, and 6 cards	TDDT	HOT D	ALL DAMA COMPLEME
recerem	LPDL,	HOLD	ALL DATA COMPLETE
		.,	

3.2.5 AUDIT ALGORITHMS

Internal checks should be made as follows before the appropriate data base is updated. Input failing these criteria will be rejected and reflected in the audit reports.

B card — No FLOCON (child) record will be established unless a corresponding DAPTS (parent) record exists in the data base.

G card — No data base record change should be made unless there is a FLOCON (child) record with matching SEG and DATACQ or there is a corresponding B card in the same input file.

H card — No data base change unless there is data in the LPDLCO field or a matching G card is in the input file.

I card — No change unless there is data in the AICOMP field or a matching H card is in the input file.

*, 2, 3 cards — Audit will verify that all three cards are in the input file before a new DAPTS (parent) record is created in the corresponding data base. An update/modify transaction can be performed on an existing record by submitting any or all three of these cards.

J card — No change unless there is data in the FACKRE field or a matching I card is in the input file.

K card or M card — No change unless there is data in the RUNSUB field or a matching J card is in the input file.

X card — No change unless there is data in the PACKRE field or a matching I card is in the input file.

U card — No change unless there is data in the TOCAS field or a corresponding X card is in the input file.

7, 8, or 9 cards - No change unless a FLOCON (child) record exists for the SEG and DATACQ or unless a valid B card is in the input file.

3.2.6 DATA BASE MAINTENANCE

Provisions should be made for interactive data base maintenance. Entries made in this mode will change data as commanded, but these will not affect other fields in the data base.

3.2.7 OUTPUT

The LACIE Phase III ASATS must provide both detail and statistical summary outputs in the form of printed reports as follows: daily audits, punched cards, labels, daily packet order list, biowindow open report, and biowindow close report. Separate reports will be generated for Phase II and Phase III data.

3.2.7.1 Daily Audits

The purpose of this report is to audit the day's input and operation for checks and verification. This report contains several parts (appendix, figs. A-1 through A-9) as follows:

a. Batch input cards.

<u>Purpose</u>: To provide a listing and count of all cards input for this update.

Contents: All data punched on cards.

Selection criteria: All cards in input card deck.

Sort criteria: Card type.

b. Punch cards listing.

Purpose: To list all cards punched by ASATS on this run.

Contents: All data punched on cards.

Selection criteria: All cards punched this run.

<u>Sort criteria</u>: Card type, segment number, acquisition date, and tape number.

c. Listing of cards submitted.

<u>Purpose</u>: To list all cards in the order of their input this run.

Contents: All data punched on cards.

Selection criteria: All cards in input card deck.

Sort criteria: No sort.

d. Invalid duplicate input cards.

Purpose: To list all cards rejected as duplicates this run.

Contents: All data punched on input cards.

Selection criteria: All cards rejected as duplicates.

<u>Sort criteria</u>: Card type, segment number, and acquisition date.

e. Invalid input card types.

<u>Purpose</u>: To provide a listing of all cards showing invalid card code.

Contents: All data punched on card.

<u>Selection criteria</u>: All cards with no match to valid card code.

Sort criteria: Card type, segment number, and acquisition date.

f. Input cards with invalid LACIE phase.

<u>Purpose</u>: To provide a listing of all cards showing invalid LACIE Phase indicator.

Contents: All data punched on input card.

Selection criteria: All cards with no match to valid LPI.

Sort criteria: Card type, segment number, and acquisition date.

g. Invalid new acquisitions.

<u>Purpose</u>: To provide a listing of all new acquisitions entered into the update but for which no sample segment DAPTS (parent) record was found in the data base.

Contents: Segment, LACIE Phase indicator, acquisition date, GSFC tape number, C&I, film flag, and last status date.

<u>Selection criteria</u>: B card submitted, no DAPTS (parent) record match of segment number in the data base.

Sort criteria: Segment number and date of acquisition.

h. Invalid DAPTS modification.

<u>Purpose</u>: To provide a listing of all DAPTS (parent) record update inputs for which no sample segment was found to exist.

<u>Contents</u>: Card type, segment number, LACIE Phase indicator, transaction date, and last status date.

<u>Selection criteria</u>: 4, 5, or 6 cards submitted; no matching DAPTS (parent) record with segment number in data base.

Sort criteria: Card type and segment number.

i. Invalid FLOCON modifications.

<u>Purpose</u>: To provide a listing of all FLOCON (cnild) record update inputs for which no segment or no acquisition date match was made. Also lists any update inputs which do not meet the audit algorithms of paragraph 3.2.5.

Contents: All data on card.

<u>Selection criteria</u>: G, H, I, J, K, M, U, X, 7, 8, or 9 cards submitted; no FLOCON (child) record with matching segment number and acquisition date in data base.

<u>Sort criteria</u>: Card type, segment number, and date of acquisition.

3.2.7.2 Daily Packet Order List

This list (appendix, fig. A-10) is printed as a multicopy form to be completed by CAMS personnel for use in ordering segment packets from the LPDL. It indicates all packets available for pickup, count, and statistics.

Contents (fields): Country (CNTRY), priority code (PC), LACIE Phase indicator (LPI), segment number (SEG NO), acquisition date (ACQ DATE), region (REG), zone (ZONE), strata (STR), biowindow (BW), wheat variety (WV), and last change (LAST CHNG). Also included are blank fields for ordered (ORD), count (CNT), delivered (DEL), transaction date (TX DATE), and received date (REC CAMS/LPDL), and comments (COMMENT).

Selection criteria: Current comment = ready for pickup.

<u>Sort criteria</u>: Priority code, country segment number, and date of acquisition (Not to include priority group 1.)

3.2.7.3 Biowindow Open Report

This report (appendix, fig. A-11), satisfies an OCC requirement to display at the first of each month all sample segments with biophase windows opening any time during that month.

Contents: LACIE phase, priority code, country, segment number (SEG), region, zone, strata, biophase (WINDOW NBR), biophase open date, and biophase close date.

Selection criteria: Biophase open date within window specified Sort criteria: Priority code, country, segment number, and biophase.

3.2.7.4 Biowindow Close Report

This report (appendix, fig. A-12) satisfies an OCC requirement to display at the first of each month all sample segments with biophase windows closing any time during that month.

Contents: LACIE phase, priority code, country, segment number (SEG), region, zone, strata, biophase (WINDOW NBR), biophase open date, and biophase close date.

Selection criteria: Biophase close date within window specified.

Sort criteria: LACIE Phase indicator, priority code, country, segment number, and biophase.

3.2.7.5 Packet Labels

The automatic generation of packet labels (appendix, fig. A-13) provides a technique to prevent human errors for the large quantity of LACIE packages.

Contents: LACIE Phase indicator, segment number (SEG), date of
acquisition (DATACQ), bio hase number (BS), tape number (TAPE #),
and film flag (FLAG).

Selection Criteria: Input of the "B" card.

Sort Criteria: LACIE Phase indicator, segment number, and date of acquisition.

APPENDIX

REPORT EXAMPLES

LACIE PHASE II/III BATCH INPUT CARDS

```
PHASE 2
CARD .
                                                                                                                                              COUNT
                                                                                   OTHER
           SEG LPI DATACQU
                                                                         9999 9999 G 8A
9999 9999 G 8A
                                                         9999 9999
         1783
                          US
                                                         9999 9999
        1784
1790
                          US
                          115
      1791
1792
1793
1794
                                                      ... 9999 9999
                                                                                          G.SA
                          DS.
                                                         9999 9999
                                                                         9999
                                                                                 9999
                          U$
                          Ü$
                                                         9999 9999
                                                                         9999
                                                                                 9999
                                                         9999 9999
                                                                                 9999
                                                                         9999
                          U8
                                                                                             84
                                                                                 9999
                                                                         9999
                                                         9999 9999
                                                                                             84
         1795
                          US
                                                         9999 9999
                                                                         9999
                                                                                 9999
         1796
                                                                                             84
                          US
                                                         9999 9999
                                                                         9999
                                                                                  9999
                                                                                          G BA
         1797.
                          115
        1798
                          US
                                                          9999 9999
                                                                         9999
                                                                                                                                                      12
CARD 2 ....
                                    NO30/00 W090/00 0 0123 1501 NH15-7
                                   NOSO/ON WO90/OO 0 0123 1501 NH15=7
NOSO/ON WO90/OO 0 0123 1501 NH15=7
NOSO/ON WO90/OO 0 0123 1501 NH15=7
NOSO/ON WO90/OO 0 0123 1501 NH15=7
NOSO/ON WO90/OO 0 0123 1501 NH15=7
NOSO/ON WO90/OO 0 0123 1501 NH15=7
NOSO/ON WO90/OO 0 0123 1501 NH15=7
NOSO/ON WO90/OO 0 0123 1501 NH15=7
                                                                                               1501 NH15=6
                                                                                                                    ONC K=26
                                                                                               1501 NH15-6
                                                                                                                   ONC K-26
         1786
                                                                                               1501 NH15-6
         1790
        1791
1792
1793
1794
1795
                                                                                               1501 NH15-6
                                                                                                                    ONC K-26
                                                                                                                    ONC K-26
                                                                                               1501 NH15-6
                                                                                                                    ONC K-26
                                                                                                      NH15=6
                                                                                               1501
                                                                                                      NH15-6
                                                                                                                    ONC K-26
                                    NOSO/OG W090/00 0 0123 1501 NH15-7
NOSO/OG W090/00 0 0123 1501 NH15-7
                                                                                               1501
                                                                                                      NH15-6
                                                                                                                    ONC K-56
                                                                                                                   DNC K-26
         1796
                                                                                               1501 NH15=6
                                    No30/00 W090/00 0 0123 1501 NH15-7
No30/00 W090/00 0 0123 1501 NH15-7
                                                                                                      NH15-6
                                                                                                                   UNC K-26
         1797
                                                                                               1501
                                                                                                      NH15-6
                                                                                                                    ONC K-26
                                                                                               1501
         1798
                                    NO30/00 W090/00 0 0123 1501 NH15-7
                                                                                              1501 NH15-6
CARD 3
                                    1 69050 69069 69100 69120 69180 69200 69300
1 69050 69069 69100 69120 69180 69200 69300
1 69050 69069 69100 69120 69180 69200 69300
         1757
                          6900
         1790
                                    1 69050 69069
                          6900
        1791
                                    1 69050 69069 69100 69120 69180 69200 69300
                          6900
                          6900
                                    1 69050 69069 69100 69120 69180 69200 69300
         1793
                           6900
                                       69050 69069
                                                           69100 69120 69180 69200 69300
                                    1 6905n 69069 69100 69120 69180 69200 69300
1 6905n 69069 69100 69120 69180 69200 69300
1 6905n 69069 69100 69120 69180 69200 69300
1 6905n 69069 69100 69120 69180 69200 69300
         1794
                          6900
         1795
                           6900
         1796
                           6900
                           6900
```

ORIGINAL PAGE IS OF POOR QUALITY

Figure A-1.— Sample format of LACIE batch input cards report.



LACIE PHASE II/III BATCH INPUT CARDS

CARD SEG LPI DATACOU				OTHER						COUNT					
			1 6905 1 6905	6 6906 6 6906	9 691 9 691	00 69 00 69	120 £	9180 9180	6920	0 69: 10 69:	300 300	g ¹⁷ & Child essents at \$	oleone del etcolololectus de	% वर राज्यानेत्वर अध्यक्ते अस्	e energence description of the second
															1
791	,		7001												
794 795 797	5 5 5	(1986年) (1765年 : 1878年 - 1899年) (1986年)	7001 7001 7001	. 2.75. d (Site: Shothermal)		THE COURSE IN	etaan takki nigaleeyo		LECTRON LAS	s - sse	· वेदाः श्रीकास्य दर्दे	CHARGE SPECIAL	. In the management	м жилон түүлөг	(C. NOW T. 33 (
** ·********				P HISTORY WAS A TOTAL		The state of the s	ering, entre		*****	ar sandilar byanga s	namenta paparing	Mente Alexander (K.)	LO COMPTANTO	e usakan ere yang manaka	or of the second
792 794 7 9 6 797	5 5 5 5 5	a (2) y whose severe passers	7002 7002 7002 7002	Ener = ukan∓n yi	ko san Prope po A	aller er all er alle er anger	· Constant many				e st iviz oju olekos		e produce standards	· o saecakona-konografia	
								6				٠		***	
793 795 796 797	5 5 5	······································	7003		/-		ide igang yan diy		ter određen od - g			eder of the control o	* 1/4 (O2)		
value en	er Cel Pr iman		······································	- w de tit pi skerillings		THE PERSONNEL		AND THE REAL PROPERTY.	maton y rem	·					
791 792 793 794	5 5 5	7111 7111 7111 7111	7112	777001	7001 7001	7001 7001	1		#+ ·						
795 796 797 798 800	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		7112 7112 7112 7112	777001 777001 777001 771111	7001 7001 7001 7111	7001 7001 7001 7111	1 1 1		entry th	encongress (engre	Posteriora di sa	- dominy-ty-plea gene	· · · · · ·	From y asserted wave waven	
, 有	798 799 791 791 795 797 797 797 797 797 797 797	798 2 799 2 791 2 791 2 795 2 797 2 798 2 799 2 799 2 799 2 799 2	798 2 6900 799 2 6900 791 2 792 2 794 2 795 2 796 2 797 2 798 2 797 2	798 2 6900 1 6905 799 2 6900 1 6905 791 2 7001 792 2 7001 797 2 7001 797 2 7002 798 2 7002 799 2 7002 799 2 7003 799 2 7003 799 2 7003 799 2 711 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112 799 2 7111 7112	798 2 6900 1 69050 6906 799 2 6900 1 69050 6906 791 2 7001 792 2 7001 797 2 7001 798 2 7002 799 2 7002 799 2 7002 799 2 7002 799 2 7003 799 2 7001 799 2 7001 799 2 7001 799 2 7001 799 2 7001 799 2 7001 799 2 7001	798 2 6900 1 69056 69069 691 799 2 6900 1 69056 69069 691 791 2 7001 792 2 7001 797 2 7001 798 2 7002 799 2 7002 799 2 7002 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7011 7012 7790 1 7001 7012 702 703 704 2 7111 7112 777001 7001 705 2 7111 7112 777001 7001 705 2 7111 7112 777001 7001 705 2 7111 7112 777001 7001 705 2 7111 7112 777001 7001 707 708 709 2 7111 7112 777001 7001 709 2 7111 7112 777001 7001 709 2 7111 7112 777001 7001	798 2 6900 1 69056 69069 69100 69 799 2 6900 1 69056 69069 69100 69 791 2 7001 792 2 7001 797 2 7001 798 2 7002 799 2 7002 799 2 7002 799 2 7003	798 2 6900 1 69056 69069 69100 69120 6 799 2 6900 1 69056 69069 69100 69120 6 791 2 7001 792 2 7001 795 2 7001 796 2 7002 797 2 7002 797 2 7003 797 2 7003 797 2 7003 797 2 7003 797 2 7003 797 2 7003 798 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1	798 2 6900 1 69056 69069 69100 69120 69180 799 2 6900 1 69056 69069 69100 69120 69180 791 2 7001 792 2 7001 797 2 7001 798 2 7002 799 2 7002 799 2 7002 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1	798 2 6900 1 69050 69069 69100 69120 69180 6920 799 2 6900 1 69050 69069 69100 69120 69180 6920 791 2 7001 792 2 7001 797 2 7001 797 2 7002 798 2 7002 799 2 7002 799 2 7003	798 2 6900 1 69056 69069 69100 69120 69180 69200 69 799 2 6900 1 69056 69069 69100 69120 69180 69200 69 791 2 7001 792 2 7001 797 2 7001 798 2 7002 799 2 7002 799 2 7003	798 2 6900 1 69056 69069 69100 69120 69180 69200 69300 799 2 6900 1 69056 69069 69100 69120 69180 69200 69300 791 2 7001 792 2 7001 795 2 7001 796 2 7002 797 2 7003 797 2 7003 798 2 7003 799 2 7003 799 2 7003 799 2 7003 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777011 7011 7011 1	798 2 6900 1 69055 69069 69100 69120 69180 69200 69300 799 2 6900 1 69055 69069 69100 69120 69180 69200 69300 791 2 7001 792 2 7001 797 2 7001 797 2 7002 798 2 7002 799 2 7003 797 2 7003 797 2 7003 797 2 7003 798 2 7003 799 2 7003 799 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 791 2 7111 7112 777001 7001 7001 1 791 2 7111 7112 777001 7001 7001 1 792 2 7111 7112 777001 7001 7001 1 793 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777001 7001 7001 1 790 2 7111 7112 777111 7111 1	798 2 6900 1 69056 69069 69100 69120 69180 69200 69300 799 2 6900 1 69056 69069 69100 69120 69180 69200 69300 791 2 7001 792 2 7001 793 2 7002 794 2 7002 796 2 7003 797 2 7003 797 2 7003 797 2 7003 798 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 771011 7111 7111 7111 1	798 2 6900 1 69056 69069 69100 69120 69180 69200 69300 799 2 6900 1 69056 69069 69100 69120 69180 69200 69300 791 2 7001 792 2 7001 793 2 7002 794 2 7002 795 2 7003 797 2 7003 797 2 7003 797 2 7003 797 2 7003 797 2 7003 798 2 7111 7112 777001 7001 7001 1 799 2 7111 7112 71710 7111 7111 1

Figure A-1.- Concluded.

A-2

PUNCH CARDS LISTING JANUARY 26, 1977

```
ASATS PUNCHED CARDS (NEW 4,5,6,6,H)
G 172937022
H 172937022
G 172937023
H 172937023
G 174137023
H 174137023
G 175337022
H 175337022
G 501837023
H 501837023
G 502937023
H 502937023
G 503337023
H 503337023
G 520937023
H 520937023
G 521437023
H 521437023
G 523537023
H 523537023
G 525337023
H 525337023
G 530337023
H 530337023
G 531037023
H 531037023
G 531337023
H 531337023
G 531537023
H 531537023
G 531737023
```

Figure A-2. - Sample format of punch cards listing.



```
7112
C. 17142U8
                            9999 9999 9999 9999 G 8A
C 17152US
                            9999 9999 9999 G SA
 1781805
                             9994 9999 9999 9999 G BA
                            9999 4399 9999 9999 G 81
  1762508
 1783208
                             9999 9999 9999 G BA
                            9999 9999 9999 G 8A
  1784205
                                                       1501 NH15-6
 178421 T N030/00 W090/00 n 0123 1501 NH15=7
                                                                       ONC K-26.
                                                      1501 NH15-6
 178521 T N030/00 W090/00 n 0123 1501 NH15-7
                                                                       ONC K-26
                                                                       DNC K=26
 178621 T N030/00 H090/00 0 6123 1501 NH15-7 1501 NH15-6
  1786249001 69050 69069 69100 69120 49180 69200 69300
 1787269001 69050 69069 69100 69120 69180 69200 69300
 17902(15 9999 9999 9999 G 8A
179021 T N030/00 W090/00 0 0123 1501 NH15=7 1501 NH15=6 ONC K-26
3 1790269001 69050 69069 69100 69120 69180 69200 69300
 17912US . 9999 9999 9999 G 6A
179121 T NO30/00 W090/00 10123 1501 NH15+7 1501 NH
1791269001 69050 69069 69100 69120 69180 69200 69300
                                                       1501 NH15-6 ONC K-26
B 179127111
                   277001 7001 7001 1
              7001 ... .....
4 17912
                            9999 9999 9999 G BA
  17922118
 179221 T N030/00 W090/00 0 0123 1501 NH15-7 1501 NH15-6 ONG K-26 1792269001 69050 69069 69100 69120 69180 69200 69300
  179227111
                   277001 7001 7001 i
5 17922
# 17932115 9999 9999 9999 6 8A
2 179321 T N030/00 W096/00 N 0123 1501 NH15-7 1501 NH15-6 ONC K-26
3 1793269001 69050 69069 69100 69120 69180 69200 69300
B 179327111
                   277001 7001 7001 1
6 17932
              7003
$ 17942US 9999 9999 9999 G 8A 2 179421 T NO30/00 W090/00 0 0123 1501 NH15-7 1501 NH15-6 DNC K-26 3 1794269001 69050 69069 69000 69120 69180 69200 69300
B 179427111
                   277001 7001 7001 1
4 17942
              7001
5 17942
              7002
 17952US 9999 9999 9999 G 8A
179521 T N030/00 W090/00 0 0123 1501 NH15=7 1501 NH45=6 ONC K=26
1795269001 69050 69069 69100 69120 69180 69200 69300
B 179527111
                   277001 7001 7001 1
4 17952
              7001
6 17952
              7003
                            9999 9999 9999 G 8A
  1796205
2 179621 T N030/00 W090/00 0 0123 1501 NH15-7 1501 NH15-6 DNC K-26
3 1796269001 69050 65069 69000 69120 69180 69200 69300
B 179627111
                    277001 7001 7001 1
5 17962
              7002
6 17962
              7003
                            9999 9999 9999 G 8A
  1797205
 179721 T NO30/CO W090/OO 0 0123 1501 NH15-7 1501 NH15-6 ONC K-26
3 1797269001 69050 69069 69100 69120 69180 69200 69300
  179727111
                    277001 700T 7001 1
4 17972
              7001
5 17972
              7002
  17972
              7003
 17962115 9999 9999 0399 9999 G 8A
179821 T N030/00 W090/00 0 0123 1501 NH15=7 1501 NH15=6 DMC K=26
3 1798269001 69050 69069 69100 69120 69180 69200 69300
B 179827111
                    271111 7111 7111 1
                    Z71111 7111 7111 1
B 179827111
  17992115
                            9999 4999 9999 G 8A
2 179921 T N030/00 W090/00 6 0123 1501 NH15-7 1501 NH15-6 ONC K-26
```

Figure A-3.— Sample format of cards submitted report.

```
3 1799269001 69050 69069 69100 69120 69180 69200 69300
G 179927111
U 105226129
K 146226254
M 146226254
G 168326220
H 168326220
I 168356550
J 168356550
K 168359550
W 198359550
X 168359550
                  99 9.9
N 168358550
G 168426220
I 198459550
J 168426220
K 168426220
M 168426220
X 168426220
                  99 9.9
U 148454550
H 168726272
J 174426261
                  Z71111 7111 7111 1
B 180027111
G 180027111
H 180027111
H 180027111
I 180027111
J 180027111
K 180027111
M 180027111
X 180027111
111750081 U
7 180027111
9 180027111
I 196526258
X 196526258
                  99 9.9
                       CANCEL TEST
7 197526263
8 197727111
                       RFORDER TEST
9 197926277
                       REJECT TEST
```

Figure A-3.- Concluded.

INVALID DUPLICATE INVALID DUPLICATE

Figure A-4.- Sample format of invalid duplicate input cards report. B 1798271111 H 180027111

ය ය (COL 2) CARD TYPE 9999 9999 9999 9999 INPUT CARDS WITH INVALID C 17142US

INVALID TYPE INVALID TYPE

48

--- 14

NM

Figure A-5.- Sample format of invalid input card types report.

INPUT CARDS WITH INVALID LACTE PHASE

* 17818US

* 17825US

INVALID LACIE PHASE INVALID LACIE PHASE

4 W

Figure A-6.- Sample format of invalid LACIE Phase indicator report.

A-6

INVALID NEW ACQUISITIONS

105037011 7026 A60432 7025 7026 1

Figure A-7.- Sample format for invalid new acquisitions.

INVALID DAPTS MODIFICATIONS

4 99983 7026 7026

Figure A-8.— Sample format for invalid DAPTS modifications report.

INVALID ACQUISITION MODIFICATIONS

I 101537026

Figure A-9.— Sample format for the invalid acquisition (child) modifications report.



DAILY PACKET ORDER LIST JAN 26, 1977

PHASE III

CMTRY/PC US 2

ORD	SEG NO	LPI	ACQ DATE	REG	ZONE	STR	B W	W V	CNT	LAST' CHNG	DEL	TX DATE	REC	CAMS/LPDL	COMMENT
	1015	3	0396	0008	009	009	1	W		02/26/76					
	1015	3	0566	8000	009	009	1.	W		03/05/76					
	1017	3	0556	0020	OOC	003	1	W		03/08/76					
	1052	3	0566	0048	000	011	1	W		03/08/70					
	1084	3	0206	0048	000	043	1	W		03/03/76					
	1181	3	0536	0020	000	003	1	W		03/08/76					
	1232	3	0546	0040	003	007	1	W		03/08/76					
	1234	3	0546	0040	004	000	1	W		03/02/76					
	1572	3	0566	0031	005	004	1	W		03/04/76					
	1573	3	0556	0031	005	007	1	W		03/08/76					
	1580	3	0566	0031	007	005	1	W		03/08/76					
	1885	3	0546	0020	000	015	1	W		03/02/76					

ORIGINAL PAGE IS OF POOR QUALITY

Figure A-10.— Sample format for the daily packet order list.

A-8 35

HIDIOGTCAL WINDOW OPENINGS 6220 - 7129 1-25-77

1	Þ	H	A	S	Ç	1	i '	Ì	1
	- 1		_	,	•				•

CNTRY XXXX 5300	SEG	REGION	ZONE	STRATA	71	OPEN DATE	CLOSE DATE
5300 0006 0006 0006 6259 7129 5301 0006 0006 0006 6259 7129 5308 0006 0006 0006 6259 7129 5320 0006 0006 0006 6259 7129 5322 0006 0006 0006 6259 7129 5333 0006 0006 0006 6259 7129 5335 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5349 0018 0018 6259 7129 5854 0018 0018 6259 7129 5855 0018 0018 6259 7129 5860 0018 0018 6259 7129 <	PRIGRITY	one 9		WINDOW	NBR	1	
5300 0006 0006 0006 6259 7129 5301 0006 0006 0006 6259 7129 5304 0006 0006 0006 6259 7129 5320 0006 0006 0006 6259 7129 5322 0006 0006 0006 6259 7129 5323 0006 0006 0006 6259 7129 5334 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5449 0018 0018 6259 7129 5854 0018 0018 6259 7129 5855 0018 0018 6259 7129 5860 0018 0018 6259 7129 <	CHTRY XXXX	ĸ					
5301 0006 0006 0006 6259 7129 5308 0006 0006 0006 6259 7129 5320 0006 0006 0006 6259 7129 5322 0006 0006 0006 6259 7129 5323 0006 0006 0006 6259 7129 5334 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0018 0018 6259 7129 5850 0018 0018 0018 6259 7129 5854 0018 0018 6259 7129 5860 0018 0018 6259 7129 5861 0018 0018 6259 7129 </td <td>5300</td> <td>0006</td> <td>0006</td> <td>0006</td> <td></td> <td>6259</td> <td>7120</td>	5300	000 6	0006	0006		6259	7120
5304 0006 0006 0006 6259 7129 5308 0006 0006 0006 6259 7129 5320 0006 0006 0006 6259 7129 5322 0006 0006 0006 6259 7129 5334 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5850 0018 0018 6259 7129 5854 0018 0018 6259 7129 5858 0018 0018 6259 7129 5860 0018 0018 6259 7129 <	5301						
5308 0006 0006 0006 0006 6259 7129 5320 0006 0006 0006 6259 7129 5322 0006 0006 0006 6259 7129 5323 0006 0006 0006 6259 7129 5334 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5345 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5354 0018 0018 0018 6259 7129 5854 0018 0018 0018 6259 7129 5858 0018 0018 0018 6259 7129 5868 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 6019 0021 0021	5304			AM 4			
5320 0006 0006 0006 0006 6259 7129 5322 0006 0006 0006 6259 7129 5323 0006 0006 0006 6259 7129 5334 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5348 0006 0018 0018 6259 7129 5350 0018 0018 0018 6259 7129 5851 0018 0018 0018 6259 7129 5852 0018 0018 0018 6259 7129 5853 0018 0018 0018 6259 7129 5860 0018 0018 0018 6259 7129 5871 0018 0018	5308						
5322 0006 0006 0006 6259 7129 5323 0006 0006 0006 6259 7129 5334 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5348 0006 0006 6259 7129 5348 0006 0006 6259 7129 5348 0006 0006 6259 7129 5350 0018 0018 6259 7129 5351 0018 0018 6259 7129 5350 0018 0018 0018 6259 7129 5351 0018 0018 0018 6259 7129 5352 0018 0018 0018 6259 7129 5353 0018 0018 0018 6259 7129 5365 0018 0018 0018 6259 7129 5363 0018 0018 0018 6259 7129 5363 0018							
5323 0006 0006 0006 6259 7129 5334 0006 0006 0006 6259 7129 5335 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5354 0018 0018 0018 6259 7129 5854 0018 0018 0018 6259 7129 5858 0018 0018 0018 6259 7129 5858 0018 0018 0018 6259 7129 5858 0018 0018 0018 6259 7129 5860 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 6100 0021 0021 0021 6259 7129 6103 0018 0018 0021							
5334 0006 0006 0006 6259 7129 5335 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5345 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5850 0018 0018 6259 7129 5854 0018 0018 6259 7129 5855 0018 0018 6259 7129 5858 0018 0018 6259 7129 5860 0018 0018 6259 7129 5863 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 5871 0018 0018 0029 7129 6109 0020 0020 0020 6259 7129 6100 0021 0021 <		0006					
5335 0006 0006 0006 6259 7129 5338 0006 0006 0006 6259 7129 5345 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5850 0018 0018 6259 7129 5854 0018 0018 6259 7129 5855 0018 0018 6259 7129 5856 0018 0018 6259 7129 5863 0018 0018 6259 7129 5871 0018 0018 6259 7129 5871 0018 0018 6259 7129 6101 0021 0021 0021 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6103 0021 0021 <		0006	0006	0006			
5338 0006 0006 0006 6259 7129 5345 0006 0006 0006 6259 7129 5348 0006 0006 0006 6259 7129 5850 0018 0018 0018 6259 7129 5854 0018 0018 0018 6259 7129 5855 0018 0018 0018 6259 7129 5858 0018 0018 0018 6259 7129 5860 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021			0006	0006			
5348 0006 0006 0006 6259 7129 5850 0018 0018 0018 6259 7129 5854 0018 0018 0018 6259 7129 5855 0018 0018 0018 6259 7129 5858 0018 0018 0018 6259 7129 5860 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 5874 0018 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6101 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6104 0021 0021 0021 6259 7129 6120 0021 0021		0006	0006	0006			
5850 0018 0018 0018 6259 7129 5854 0018 0018 0018 6259 7129 5855 0018 0018 0018 6259 7129 5858 0018 0018 0018 6259 7129 5860 0018 0018 0018 6259 7129 5863 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 6019 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6101 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6124 0021 0021 0021 6259		0006	0006	0006		6259	7129
5854 0018 0018 6259 7129 5858 0018 0018 6259 7129 5858 0018 0018 6259 7129 5860 0018 0018 6259 7129 5863 0018 0018 6259 7129 5871 0018 0018 6259 7129 5871 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6109 0021 0021 0021 6259 7129 6100 0021 0021 0021 6259 7129 6110 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6120 0021 0021 0021			0006	0006		6259	7129
5858 0018 0018 6259 7129 5858 0018 0018 6259 7129 5860 0018 0018 6259 7129 5863 0018 0018 6259 7129 5871 0018 0018 6259 7129 5871 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6129 0021 <						6259	7129
5858 0018 0018 0018 6259 7129 5860 0018 0018 0018 6259 7129 5863 0018 0018 0018 6259 7129 5871 0018 0018 0259 7129 5874 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6104 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129							7129
5860 001A 001B 001B 6259 7129 5863 001B 001B 001B 6259 7129 5871 001B 001B 002B 6259 7129 5874 001B 001B 0259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6124 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6134 0021 0021 0021 6259 7129 6140 0021 0021 0021 6259							
5863 0018 0018 0018 6259 7129 5871 0018 0018 0018 6259 7129 5874 0018 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6140 0021 0021 0021 6259 7129 6144 0021 0021							
5871 0018 0018 0018 6259 7129 5874 0018 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6140 0021 0021 0021 6259 7129 6140 0021 0021 0021 6259 7129 6154 0021 0021 0021							
5874 0018 0018 0018 6259 7129 6019 0020 0020 0020 6259 7129 6100 0021 0021 0021 6259 7129 6103 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6154 0021 0021 0021							
6019 6100 6100 6101 6101 6101 61021 61021 6103 6103 6021 6021 6021 6021 6259 7129 6103 6117 60101 6021 6021 6021 60259 7129 6117 6120 6120 6120 6121 6021 6021 6021 60259 7129 6123 6123 6021 6021 6021 6021 6259 7129 6132 6132 6021 6021 6021 6021 6259 7129 6146 6021 6021 6021 6259 7129 6149 6140 6021 6021 6021 6259 7129 6140 6150 6150 6021 6021 6021 6259 7129 6150 6150 6021 6021 6021 6259 7129 6150 6150 6150 6021 6021 6259 7129 6150 6150 6150 6021 6259 7129 6150 6150 6150 6150 6259 7129 6150 6150 6150 6259 6150 6259 7129 6150 6150 6150 6150 6150 6150 6150 6150							
6100 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6108 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6152 0021 0021 0021 6259 7129 6172 0021 0021 0021 6259 7129							
6103							
6108 0021 0021 0021 6259 7129 6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6154 0021 0021 0021 6259 7129 6154 0021 0021 0021 6259 7129 6154 0021 0021 0021 6259 7129 6172 0021 0021 0021 6259 7129							
6117 0021 0021 0021 6259 7129 6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129							
6120 0021 0021 0021 6259 7129 6123 0021 0021 0021 6259 7129 6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129							
6123 0021 0021 0021 6259 7129 6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129 6172 0021 0021 0021							_
6129 0021 0021 0021 6259 7129 6132 0021 0021 0021 6259 7129 6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129 6172 0021 0021 0021 6259 7129							
6132							
6146 0021 0021 0021 6259 7129 6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129 6172 0021 0021 0021							
6149 0021 0021 0021 6259 7129 6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129 6172 0021 0021 0021 6259 7129							
6150 0021 0021 0021 6259 7129 6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129 6172 0021 0021 0021 6259 7129							
6156 0021 0021 0021 6259 7129 6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129 6172 0021 0021 0021 6259 7129							
6159 0021 0021 0021 6259 7129 6164 0021 0021 0021 6259 7129 6172 0021 0021 6259 7129						_	
6164 0021 0021 0021 6259 7129 6172 0021 0021 0021 6259 7129							
6172 0021 0021 0021 6259 7129							
Aust Anst Anst 6524 (154	6177	1500		0021			129

Figure A-11.— Sample format for the LACIE Phase III biological window openings report.

LACIE BIOLOGICAL WINDOW CLOSINGS 7032 - 7059 1-27-77

PHASE 3

SEG	REGION	ZONE	STRATA			OPEN DATE	CLOSE DATE
PRIORITY	CODE 10		WINDOW	NBR	4		
CHTRY XX	xxx						
5 000	0001	0001	0001			6288	7092
5001	0001	0001	1000			6274	7092
5002	0001	0001	0001			6244	7092
5003	0001	0001	0001			6288	7092
5004	0001	0001	0001			6244	7092
5005	0001	0001	0001			6244	7092
5006	0001	0001	0001			6274	7092
5007	0001	0001	0001			6288	7092
500A	0 0 0 1	0001	0001			6259	7092
300 9	0001	0001	0001			6288	7092
5010	0001	0001	0001			6259	7092
5011	0 0 0 1	0001	0001			6288	7092
5012	0001	0001	0001			6274	7092
5013	0001	0001	0001			6244	7092
5014	0001	0001	0001			68856	7092
5015	0001	0001	0001			6244	7092
5016	0001	0001	0001			6244	7092
5017	0001	0001	0001			6244	7092
5018	0001	0001	0001			8856	7092
5019	0001	0001	0001			6288	7092
5020	0001	0001	0001			6288	7092
5021	0001	0001	0001			6288	7092
5022	0001	0001	0001			6274	7092
5023	0001	0001	0001			6274	7092
5024	0001	0001	0001			6244	7092
5025	0001	0001	0001			6244	7092
5026	0001	0001	0001			6288	709#
5027	0001	0001	0001			6244	7092
5028	0001	0001	0 0 0 1			6274	7092
5029	0001	0001	0001			6244	7092

Obline .

Figure A-12.— Sample format for the LACIE Phase III biological window closings report.

PACKET LABELS

PHASE TIT SEG# DATE RS TAPE# FLAG 1729 7022 1 A70271

PHASE TII SEG# DATE RS TAPF# FLAG 1729 7023 1 A70271

PHASE JII SEG# DATE RS TAPE# FLAG 1741 7023 1 A70271

PHASE III SEG# DATE BS TAPE# FLAG 1753 7022 1 A70271

PHASE III SEG# DATE BS TAPE# FLAG 5018 7023 1 A70271

PHASE III SEG# DATE BS TAPE# FLAG 5029 7023 1 A70271

PHASE TIT SEG# DATE BS TAPF# FLAG 5033 7023 1 A70271

PHASE III SEG# DATE BS TAPF# FLAG 5209 7023 1 A70271

PHASE JIT SEG# DATE BS TAPE# FLAG 5235 7023 1 A70271

PHASE III SEG# DATE RS TAPF# FLAG 5303 7023 1 A70271

Figure A-13.— Sample format for the LACIE Phase III packet labels.

A-11 38